ABSTRACT

Wireless technology had been growing up so fast, where one of the

popular wireless technology and many to use is Wireless Local Area Network

(WLAN) technology. Wireless LAN uses a standard from IEEE, named 802.11x

which a standard for wirele ss data network and uses unlicensed ISM (Industrial,

Scientific and Medical) band: 902-928 MHz, 2400-2483.5 MHz and 5725-5850

MHz that unlicensed spectrum frequency radio (RF). Meanwhile Voice Over

Internet Protoc ol (VoIP) is a technology that passing the voice using internet

network with compression and codec speech changed into a packet data.

In this research, made a planning of voip service over wireless LAN

network's division JTS ( Jaringan Telekomunikasi Selular) which located on INTI

building at sixth and seventh floor. This planning using H323 standard. It begins

with pre - planning that include with survey, RSL measurement and voip

measurement for quality of service: delay, jitter and packet loss. Then it will

continue to the planning session that include with estimation traffic for voip

capacity, coverage area, channel order and the last thing to do is setting a voip

system over wireless LAN.

From the result of planning of voip service over existing wireless LAN

network on division JTS base on H323 standard there are two divice that must be

add on the network. They are: Gatekeeper and MCU. In this planning only uses

an acces point that belong to division JTS.

Keywords: Wireless LAN, VoIP, H323.

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